

## STIC Biotechnology Systems Branch

### RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/597,945  
Source: IFWO  
Date Processed by STIC: 08/24/2006

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

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- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.4.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/efb/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):  
U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/10/06



IFWO

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/597,945

DATE: 08/24/2006  
TIME: 13:07:45

Input Set : A:\pto.da.txt  
Output Set: N:\CRF4\08232006\J597945.raw

2 <110> APPLICANT: Korea Research Institute of Bioscience and Biotechnology  
3 KWAK, Sang-Soo  
4 KWON, Suk-Yoon  
5 LEE, Haeng-Soon  
6 RYU, Sun-Hwa  
8 <120> TITLE OF INVENTION: Multiple stress-inducible peroxidase promoter derived from  
9 Ipomoea batatas  
11 <130> FILE REFERENCE: 58049-00035  
13 <140> CURRENT APPLICATION NUMBER: US 10/597,945  
W--- 14 2006-08-11  
C--- 16 <141> CURRENT FILING DATE: 2006-08-11  
16 <150> PRIOR APPLICATION NUMBER: PCT/KR2004/000381  
W--- 17 2004-02-24  
19 <160> NUMBER OF SEQ ID NOS: 30  
21 <170> SOFTWARE: Kopatentin 1.71

*Handwritten notes:*  
-> PB Insert Mandalory 21417  
-> PB Insert Mandalory 1517

## ERRORED SEQUENCES

23 <210> SEQ ID NO: 1  
24 <211> LENGTH: 1512  
25 <212> TYPE: DNA  
26 <213> ORGANISM: Ipomoea batatas  
28 <400> SEQUENCE: 1  
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31 ggcttctcca ttaccagaa taccatata gccatgaaag ggcagcttaa gctcaccoca 120  
33 aagtggctgc tagacaacac tctagagtcg tcagtggccg acgtgctctc actacgccta 180  
35 ggcattctct cgggaagct ttccgacgaa gactgcata tctccgcctg taaggaaagt 240  
37 gtggacgcgc ccattgatgc agaaacccgc atgggtgctt cctcattcg cctctctctc 300  
39 catgactgct ttgttgatgt acgtacgcta attttgcag atgatgtttt tttttttttt 360  
41 tttttttttt ccactgcatt atattaggaa attasacaga ttgaaatgtg tgttattaat 420  
43 gtattatctg cagggttgtg acgcaggtct tctactaac gatacaccta ctttcaccgg 480  
45 agaacagacc gccggcgcca ataataactc agtcagaggt ttgaggtga tacaacaagc 540  
47 taaagagaat gtgataacca aatgtcccta catacaagta tcttgtgcgc acatcttate 600  
49 cattgctgcc cgtgattctt tccagagagt aagtcatttt atttctaaag gttgaaatta 660  
51 ataagaacaa gaatccaaac aaataacaga cagtaaaaaa aaaagattta tgtggtttga 720  
53 caatatgttg aaattgtttt tatatttaat gactagtatt tatgcattat atttatatgc 780  
55 aactctaaac atgcagttta ctggagaaac gtacacgctg actctgggaa gactcgatgc 840  
57 aagaaocggc aaccttaccg gagctaacac ccaactcgtc ggaccaaacy aggaattggc 900  
59 atcgcaagtc gagaaatttg cggcgaaagg gttctccgaa acggagctag tgccttgtt 960  
61 aggtgttcac acggttgggt tttcgagatg tccgctttta tgcgttccca ttttcacaaa 1020  
63 tcccgcgcgc gccctcaacg tgcaatgcaa ctgtccggtg agtcccgacg acaccgggct 1080  
65 ggtgggcctg gaccccaact cgttgacgtg ggaccaaagt ttttactccg acgtggctaa 1140

Does Not Comply  
Corrected Diskette Needed

*Handwritten:* CP9-21314

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/597,945

DATE: 08/24/2006

TIME: 13:07:45

Input Set : A:\pto.da.txt

Output Set : N:\CRF4\08232006\J597945.raw

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67 cggacaaggg cttctgttt cgcacaacga gctgatgaat agcaacacca ccagcgccgc 1200
69 cgttaggagg tacagggacg agatggacgc tttctcgcg gattteggcg ccgccatggt 1260
71 gaagatgagc ctcctgcgc cgtcccccg agtggagctc gaaatccgag aggtttgcag 1320
73 cgaggtgaat gccaacacag ttgcatecat gtgaagtctg ttcccatcga catcaataac 1380
75 gctgtgtgatt ctgtgaaagt tttactcgga ctgtgaagaa tttcaattt ctgtgtttt 1440
77 tgaataaaaa aagatttttt ttttatgtcc taacaaaact tgtattactg aataaaattt 1500

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E--&gt; 79 ataaatttgt ta

80 1512

119 &lt;210&gt; SEQ ID NO: 4

120 &lt;211&gt; LENGTH: 306

121 &lt;212&gt; TYPE: DNA

122 &lt;213&gt; ORGANISM: Ipomoea batatas

124 &lt;220&gt; FEATURE:

125 &lt;221&gt; NAME/KEY: promoter

126 &lt;222&gt; LOCATION: (1)..(306)

127 &lt;223&gt; OTHER INFORMATION: -306 deletion promoter

130 &lt;400&gt; SEQUENCE: 4

131 taaggtgttt tatcgtggca gcatgagtgc atgacaaacg catatattat tattaaaaca 60

133 aaatagtagt ccaatcataa taaattatct tatattatat tgccaacaat taaaaattca 120

135 aattagaaca aattaaatct cagtttgctt tattatatta ttatcaacaa taataattta 180

137 atactgateg aagaactttc cctttcaagt tctctattta aggaagcctg agaagccatt 240

139 aatctctatc atcagctcga ccactcatct cttcttcata ctctctttgc tgtgataatc 300

E--&gt; 141 atcatc

142 306

145 &lt;210&gt; SEQ ID NO: 5

146 &lt;211&gt; LENGTH: 366

147 &lt;212&gt; TYPE: DNA

148 &lt;213&gt; ORGANISM: Ipomoea batatas

150 &lt;220&gt; FEATURE:

151 &lt;221&gt; NAME/KEY: promoter

152 &lt;222&gt; LOCATION: (1)..(366)

153 &lt;223&gt; OTHER INFORMATION: -366 deletion promoter

156 &lt;400&gt; SEQUENCE: 5

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159 taaggtgttt tatcgtggca gcatgagtgc atgacaaacg catatattat tattaaaaca 120

161 aaatagtagt ccaatcataa taaattatct tatattatat tgccaacaat taaaaattca 180

163 aattagaaca aattaaatct cagtttgctt tattatatta ttatcaacaa taataattta 240

165 atactgateg aagaactttc cctttcaagt tctctattta aggaagcctg agaagccatt 300

167 aatctctatc atcagctcga ccactcatct cttcttcata ctctctttgc tgtgataatc 360

E--&gt; 169 atcatc

170 366

173 &lt;210&gt; SEQ ID NO: 6

174 &lt;211&gt; LENGTH: 433

175 &lt;212&gt; TYPE: DNA

176 &lt;213&gt; ORGANISM: Ipomoea batatas

178 &lt;220&gt; FEATURE:

179 &lt;221&gt; NAME/KEY: promoter

180 &lt;222&gt; LOCATION: (1)..(433)

181 &lt;223&gt; OTHER INFORMATION: -433 deletion promoter

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/597,945

DATE: 08/24/2006

TIME: 13:07:45

Input Set : A:\pto.da.txt

Output Set : N:\CRF4\08232006\J597945.raw

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189 atcatggtaa ggtgttttat cgtggcagca tgagtgcatt acaaacgcat atattattat 180
191 taaaacaaaa tagtactcca atcataataa attatcttat atttatattg caacaattaa 240
193 aaattcaaat tagaaccaat taaatctcag ttgtctttat tatattatta tcaacaataa 300
195 taatttaata ctgatcgaag aactttccct ttcaagttct ctatttaagg aagcctgaga 360
197 agccattaat cctcatcaco agctcgacca ctcatctctt cttcatactt cctttgctgt 420
E--> 199 gataatcate atc
200 433
360 <210> SEQ ID NO: 10
361 <211> LENGTH: 1934
362 <212> TYPE: DNA
363 <213> ORGANISM: Ipomoea batatas
365 <220> FEATURE:
366 <221> NAME/KEY: promoter
367 <222> LOCATION: (1)..(1934)
368 <223> OTHER INFORMATION: -1934 deletion promoter
371 <400> SEQUENCE: 10
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376 aatattcatct ctacttaaac tagagagatt tccaactctc aattaatcac caaaggtaac 180
378 tctccaaaata tccaaatgga aggtttcaac ttccaaacta ataccaaaac aaccggacta 240
380 atcataatca tattcataat cataaattgt ttctaactgc cctgtccag aaattacagt 300
382 ttgtgcagct ccgaagatt gagccggtta caatagtctc cgaactcttt ttcaactgaa 360
384 atttttatgg tagaacctta acttatagta cttgatatcc ataaaaagtt ttggtcacct 420
386 aggttcacga attaacacag aaaattacat ctttgccctt ggcagtgggc tgtccggaat 480
388 tctgtctctc tggaccagtt ttggcaaaaa attttgaac cacacttata ctactccaaa 540
390 aattatgaaa tttttatggt agcttctaca cttatagaac tacatgtata aaaaatattg 600
392 ggtcaaaaata ccttaccgat ttttcccaaa tattcacgga acttactgcc agaactctac 660
394 ctgctttttc ctttcaactat ttccacaact ataagcatat atgggcataa atatgacatg 720
396 aacatgcacg aaccaatgca ggggtgaaagt aagattgaat atactgatac tacaattaac 780
398 taatgataaa gtataacttt tgtaaaaaat ttgatttttt tttttgatga attcatatac 840
400 tccaaagatt ttctctatth aattaaattt ctatctctat gttgaaccca ttaatcgaat 900
402 aatgacata tttagataaac ttagecatca tatgacatth gatcatgatt gatgattttt 960
404 aaaaaataaa aacaaaatta tgaagggtta atgaaatatt ttaaaaaaat tatgtaaacc 1020
406 ctgtaattca gtaactctga caataataat tttgtttcaa ctaaggaggat gttggcaaaa 1080
408 gtataattaa acttgatgat ttctgtacaat aattatgctt cagcgaactca actagtcaca 1140
410 tctttccagg caaaattttt ttttctatga atatgagaag ttccatctat ggaaataacg 1200
412 gattattttat ctaatttttc aattctatat atatagtctc gagtggaaac aaaaatagaac 1260
414 taatttgaaac aaatcaaaagt ctaagaaaaat aatacatgct tttagcagca aaataagaat 1320
416 ggtactatac ttaactctca tcatagtctt caacctgca tatagcacac ttaacattht 1380
418 atattcaaat atactttta ttagtcatga taatacaact cactactctc attatagcgc 1440
420 ataatacaac tcacctagct actccattat agtccaaaca tatcaaatga ataaaatagt 1500
422 aatggtgact taaagggtct aatccaacat atattctgac atttaaaaat gctaacgtac 1560
424 ggttagatta gtataatgaa ataaagttaa ccattctcta tatttgatga tggtaattag 1620
426 tatcatggta aggtgtttta tctgtggcagc atgagtgcac gacaaacgca tatattatta 1680
428 ttaaaaacaaa atagtactcc aatcataata aattatctta tattatattg ccaacaatta 1740
430 aaattcaaaa ttagaacaaa ttaaatctca gtttgcttca ttatattatt atcaacaata 1800

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## RAW SEQUENCE LISTING

DATE: 08/24/2006

PATENT APPLICATION: US/10/597,945

TIME: 13:07:45

Input Set : A:\pto.da.txt

Output Set: N:\CRF4\08232006\J597945.raw

432 ataatttaaat actgategaa gaactttccc ttccaagttc tctatttaag gaagcctgag 1860  
434 aagccattaa tctcatcat cagctegacc actcatttct tcttcatact tcctttgctg 1920  
E--> 436 tgataatcat catc 1934  
437 1934  
770 <210> SEQ ID NO: 30  
771 <211> LENGTH: 21  
772 <212> TYPE: DNA  
773 <213> ORGANISM: Artificial Sequence  
775 <220> FEATURE:  
776 <223> OTHER INFORMATION: reverse primer for NPTII  
779 <400> SEQUENCE: 30  
780 atcggggagcg gcgataccgt a 21  
E--> 782 1  
E--> 785 1

delete

RAW SEQUENCE LISTING ERROR SUMMARY      DATE: 08/24/2006  
PATENT APPLICATION: US/10/597,945      TIME: 13:07:46  
  
Input Set : A:\pto.da.txt  
Output Set: N:\CRF4\08232006\J597945.raw

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:4; Line(s) 141  
Seq#:5; Line(s) 169

## VERIFICATION SUMMARY

PATENT APPLICATION: US/10/597,945

DATE: 08/24/2006

TIME: 13:07:46

Input Set : A:\pto.da.txt

Output Set: N:\CRF4\08232006\J597945.raw

L:14 M:259 W: Allowed number of lines exceeded, <140> CURRENT APPLICATION NUMBER:  
L:16 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:17 M:259 W: Allowed number of lines exceeded, <150> PRIOR APPLICATION NUMBER:  
L:79 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:1512 SEQ:1  
L:141 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:306 SEQ:4  
L:169 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:366 SEQ:5  
L:199 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:433 SEQ:6  
L:436 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:1934 SEQ:10  
L:783 M:254 E: No. of Bases conflict, this line has no nucleotides.  
L:786 M:254 E: No. of Bases conflict, this line has no nucleotides.